

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604713A - Combat Feeding, Clothing, and Equipment

COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	63085	88502	91002	0	0	0	0	0	0	0
548 MIL SUBSISTENCE SYS	1578	4703	1862	0	0	0	0	0	0	0
667 LAND WARRIOR	39441	59581	61755	0	0	0	0	0	0	0
668 SOLDIER ENHANCE PGM	13980	14174	14109	0	0	0	0	0	0	0
680 MOUNTED WARRIOR	188	0	0	0	0	0	0	0	0	0
C40 SOLDIER SUPPORT EQUIPMENT - ED	4475	5817	8716	0	0	0	0	0	0	0
L40 CLOTHING & EQUIPMENT	3423	4227	4560	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:

PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

This program supports Engineering and Manufacturing Development (EMD) and Non-Developmental Item (NDI) evaluation of unit/organizational equipment, weapons/munitions, clothing and individual equipment, fabric shelters, field service equipment, food and food service equipment to enhance soldier efficiency, effectiveness, lethality, sustainability and survivability in accordance with Army Transformation Campaign Plan (TCP) objectives. New food items and food service equipment will be developed to reduce food service logistics requirements for all four Services. The Soldier Support equipment program supports development of a new generation of field service support items to include: Airdrop Equipment (personnel and cargo), Field Hygiene Systems, Heaters, Shelters, and Base Camp Systems to shelter and sustain the soldiers in the field and improve quality of life. The Land Warrior program will produce the first fully integrated fighting system for dismounted combat soldiers. The Soldier Enhancement Program provides soldier items that can be procured in three years or less. This program line supports the Legacy-to-Objective transition paths of the Transformation Campaign Plan (TCP).

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<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	60600	86321	66189	0
Appropriated Value	60829	89321	0	
Adjustments to Appropriated Value	0	0	0	
a. Congressional General Reductions	0	-626	0	
b. SBIR / STTR	-1505	0	0	
c. Omnibus or Other Above Threshold Reductions	-467	0	0	
d. Below Threshold Reprogramming	3999	0	0	
e. Rescissions	0	0	0	
Adjustments to Budget Years Since FY2001 PB	229	-193	24813	
Current Budget Submit (FY 2002/2003 PB)	63085	88502	91002	0

FY01 funds increased by \$3.0M to build engineering development models and demonstrate microwave waste treatment systems for Army Bare Base camps such as Froce Provider.

FY03 funds increased by \$4.629 to Land Warrior as a higher Army Priority

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 548	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
548 MIL SUBSISTENCE SYS	1578	4703	1862	0	0	0	0	0	0	0
<p>A. Mission Description and Budget Item Justification:Project provides Engineering and Manufacturing Development (EMD) and Non-developmental Item (NDI) evaluation of combat feeding equipment to enhance soldier efficiency and survivability. New combat feeding equipment will be developed to reduce food service logistics requirements for all four services. Development of Joint Service Food/Food Service Equipment to improve individual combat effectiveness, reduce logistics burden, and reduce operation and support costs of subsistence support for service men and women. Develop multi-fuel, rapidly deployable field food service equipment to support combat, humanitarian missions and operations-other-than-war. Improve equipment to enhance safety in food service, utilize battlefield fuels and decrease fuel and water requirements. Project supports legacy through objective forces in accordance with the Transformation Campaign Plan objectives.</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> 330 Completed fabrication of prototype field kitchen components that improve efficiency over standard items. 205 Initiated Developmental and Operational Testing of the Advanced Food Sanitation Center to enhance capability to clean/sanitize combat feeding equipment and control grey water discharge. 220 Awarded contract and conducted baseline testing for the development of kit components to allow use of Modern Burner Unit in extreme cold weather, and to reduce noise levels. 251 Prepared design concept for food service equipment, procured system equipment and conducted initial testing for the highly mobile Air Force temporary Lightweight Kitchen that will improve mobility and provide rapid and efficient meal production. 207 Completed User Testing of Marine Corps Rapid Deployment Kitchen, demonstrated time/labor savings, energy efficiency, significant improvement in RAM over conventional field kitchens. 135 Designed improved Tray Ration Heater System with enhanced operational capabilities and reduced cost. 115 Conducted Joint requirements analysis and developed concept for improved efficiency Advanced Design Refrigerator for the Army and USAF. 115 Completed market investigation and initial testing of novel alternatives for individual mess kit sanitation to ensure safety of personnel. <p>Total 1578</p>										

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PROJECT

548

FY 2001 Planned Program

- 320 Integrate field kitchen equipment efficiency upgrades into a complete kitchen and conduct Developmental and Operational Testing.
- 131 Complete Developmental and Operational testing of Advanced Food Sanitation Center, conduct Milestone C and award production contract.
- 212 Complete fabrication and testing of Temporary Lightweight Kitchen and deliver Technical Data Package (TDP) and prototype to the Air Force.
- 235 Conduct noise level and cold weather evaluations of kitchen burner kit and transition to procurement.
- 175 Complete modifications and conduct in-house evaluations of the improved Tray Ration Heater System, demonstrate enhanced operational capability.
- 115 Perform in-house and user evaluations of improved sanitation methods for mess kits and provide findings to the AF.
- 350 Award development contract for design and fabrication of Advanced Design Refrigerator with enhanced transportability and improved thermal efficiency.
- 200 Assist Marine Corps in awarding production contract for the Marine Corps Rapid Deployment Kitchen.
- 2965 Adapt and modify WASTECH microwave technology to pilot-scale prototype components of a deployable, modular sanitary waste treatment system. Test and evaluate the pilot-scale prototype system components. NOTE: Funds are being reprogramed under PE 0604713A - Combat Feeding, CLothing, and Equipment; Project Code DC40 - Soldier Support Equipment.

Total 4703

FY 2002 Planned Program

- 640 Conduct Milestone B and award R&D contract for the Fabrication of prototype Battlefield Kitchen System (1 @ \$350K ea.) and initiate contractor testing. Support TRADOC Concept Experimentation program on the evaluation of the kitchen component for the Army Field Feeding System.
- 370 Complete fabrication of Advanced Design Refrigerator and conduct Developmental Testing.
- 65 Complete Technical Data Package for field kitchen efficiency upgrade and transition to procurement.
- 175 Complete user testing of upgraded tray ration heater system to demonstrate enhanced mobility, increased ration preparation capability and cost savings.
- 245 Initiate development of thermostatic control kit and safety enhancements for kitchen burner.

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PROJECT

548

FY 2002 Planned Program (Continued)

- 367 Initiate insertion of equipment technology upgrades for the Containerized Kitchen and conduct required Developmental Testing.

Total 1862

<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
RDTE, 0603747.D610, Food Adv Dev	2349	3349	3738	0	0	0	0	0	0	0
OPA3, M65803, Kitchen, Containerized, Field	7032	6077	3702	0	0	0	0	0	0	0
OPA 3, M65802, Sanitation Center, Field Feeding	658	4323	2413	0	0	0	0	0	0	0
M65801, Refrigeration Equipment	927	1466	928	0	0	0	0	0	0	0

C. Acquisition Strategy: Complete engineering and manufacturing development of food items and equipment for transition to procurement.

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Conduct User Testing of Rapid Deployment Kitchen	3Q			0	0	0	0	0
Design concepts for improved Mess Kit Sanitation	3Q			0	0	0	0	0
Design and Evaluate US Air Force Temporary Lightweight Kitchen	2Q			0	0	0	0	0
Conduct Milestone B and award Developmental Contract for the Advanced Design Refrigerator		3Q		0	0	0	0	0
Conduct Developmental and Operational Testing on field kitchen equipment efficiency upgrades		3Q		0	0	0	0	0
Initiate testing of Air Force Temporary Lightweight Kitchen		2Q		0	0	0	0	0
Test concept for Mess Kit Sanitation		3Q		0	0	0	0	0
Complete design and fabrication of Advanced Design Refrigerator - 1200		2Q		0	0	0	0	0

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT 548
<u>D. Schedule Profile (continued)</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
Conduct Technical Testing for the Battlefield Kitchen			4Q	0	0	0	0	0
Conduct Developmental Testing for the Advanced Design Refrigerator -1200			4Q	0	0	0	0	0
Conduct Milestone B and initiate Developmental and Operational Testing of the Battlefield Kitchen				0	0	0	0	0
Type Classify the Advanced Design Refrigerator - 1200 (Milestone C)				0	0	0	0	0
Award development contract for the fabrication of water treatment module for AFSC P3I effort.				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)										June 2001		
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . SSCOM	In-House	SSCOM	8347	2953		907		0	0	0	0	Continue
b . Various	Various	Various	1004	1171		160		0	0	0	0	Continue
Subtotal:			9351	4124		1067		0		0	0	Continue
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0
Remarks: Not Applicable												

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 548		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . TECOM/OEC	MIPR	Various	2471	491		530		0	0	0	0	Continue
Subtotal:			2471	491		530		0		0	0	Continue
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Project Ofc Management	In-House	SSCOM	600	88		265		0	0	0	0	Continue
Subtotal:			600	88		265		0		0	0	Continue
Project Total Cost:			12422	4703		1862		0		0	0	Continue

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 667	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
667 LAND WARRIOR	39441	59581	61755	0	0	0	0	0	0	0
<p>A. Mission Description and Budget Item Justification: The project Land Warrior (LW) establishes the Infantry soldier as the Army's singularly unique weapons platform. It is a first generation integrated fighting system for soldiers that provides combat overmatch for the five types of Infantry (air assault, airborne, light, mechanized, and ranger), and Special Operations Forces (SOF) in the close, personal, and brutal fight. Land Warrior provides enhanced capabilities to the dismounted soldier in support of the Force XXI and Transformation Campaign Plan, and has been identified as one of the top seven systems on the DCSOPS FY02 Legislative Priorities List. LW development takes maximum advantage of components available from Commercial-Off-The-Shelf (COTS), as well as Government-Off-The-Shelf (GOTS) components and technologies. The LW program minimizes the use of LW-unique hardware and software and has a more open systems architecture. This architectural approach provides greater flexibility to incorporate technology upgrades as they become available, reduces intellectual and proprietary rights issues and reduces developmental and ownership costs. LW provides the foundation system upon which Mounted, Air, and future warrior integrated systems will be based, as well as support to the Marine Corps and other services. CSA has said that the Soldier is centric to Army Transformation; LW is critical to transformation of the Soldier.</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> 28433 Awarded developmental contract to complete system hardware and software integration and produced 55+ LW V.06 systems for safety testing and airborne certification. 3157 Conducted safety testing and airborne certification, contractor component testing, user fightability evaluations, and obtained safety releases. Conducted tactics training, operators/leaders training and maintenance training prior to Joint Contingency Force Advanced Warfighting Experiment (JCFAWE). Participated in JCFAWE to demonstrate operational suitability, soldier acceptance, and increased soldier effectiveness. 7851 Program management and systems engineering support from other Government agencies and overall program efforts. Conducted technical and program reviews, and provided resources to respond to ACAT II programmatic requirements. Support to NATO Land Group 3 and other partnered countries to ensure compatibility with potential multinational military operations. <p>Total 39441</p>										

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FY 2001 Planned Program

- 45347 Incorporate design modifications from JCFAWE to system design to improve system functionality and performance to meet threshold requirements of the ORD. Conduct critical design review and contractor acceptance testing for V1.0 to validate system functionality prior to test. Complete hardware and software integration for subsequent software drops. Fabricate 50 (+ spares) LW V1.0 prototypes for safety test, training and developmental testing (DT). Initiate fabrication of LW V1.0 prototype systems for initial operational test and evaluation 80 (+ spares). Provide contractor logistics support of hardware and software on test units.
- 2419 Complete technical test plan, user fightability assessments, and obtain safety releases. Conduct technical test readiness reviews. Update training package and manuals for developmental test (DT) and transition to electronic format. Develop interactive training scenarios and evaluate integrated training environment. Conduct training of key personnel prior to operational test.
- 11815 Program management and systems engineering support from other government agencies for overall program efforts. Conduct technical and program reviews, and increased program office resources to respond to Army Category (ACAT) II programmatic requirements and posture for anticipated ACAT I designation. Conduct LW demonstrations to higher headquarters and other countries to demonstrate system capability and functionality. Support to NATO Land Group 3 and other partnered countries to ensure compatibility with potential multinational military operations.

Total 59581

FY 2002 Planned Program

- 42239 Fabricate remaining 120 (+ spares) LW V1.0 prototypes that will be used only for operational testing. Conduct contractor acceptance testing and risk reduction activities to improve system functionality and integration prior to testing. Provide contractor logistics support of hardware and software on test units.
- 7534 Complete developmental testing (DT). Complete operational testing (OT) planning and conduct airborne certification, user fightability assessments, and obtain necessary safety releases. Update and transition training package and manuals to electronic format and complete training. Develop interactive training scenarios and evaluate integrated training environment. Conduct tactics training, operators/leaders training, and maintenance training prior to OT. Conduct OT readiness reviews. Initiate Initial Operational Test and Evaluation (IOTE).
- 11982 Program management and systems engineering support from other Government agencies for overall program efforts. Conduct technical and program reviews, Army System Acquisition Review Council (ASARC) reporting/briefings, to Army Category (ACAT) I or ACAT II programmatic requirements. Continue operation of PM Soldier System - Fort Monmouth, and PM Soldier LW Forward at Fort Bragg. Conduct LW demonstrations to higher headquarters and other countries to demonstrate system capability and functionality. Support to NATO Land Group 3 and other partnered countries to ensure compatibility with potential multinational military operations.

Total 61755

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PROJECT

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B. Other Program Funding Summary

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
RDTE, 0603001.DJ50, Force XXI Land Warrior	6127	6250	27510	0	0	0	0	0	0	0
OPA3, M80500, Land Warrior	0	0	0	0	0	0	0	0	0	0
OPA3, MS3610, Initial Spares-Land Warrior	0	0	0	0	0	0	0	0	0	0
RDTE, 0643747.669 Clothing and Individual Equipment	3252	3467	4830	0	0	0	0	0	0	0
RDTE, 0654713.DL40 Clothing and Individual Equipment	3423	4227	4560	0	0	0	0	0	0	0
RDTE, 0654713.680 Mounted Warrior	188	0	0	0	0	0	0	0	0	0

C. Acquisition Strategy: The restructured LW Program takes maximum advantage of components available from other Government agencies as well as Commercial-Off-the-Shelf (COTS) components and technologies. The program minimizes the use of LW-unique hardware and software and is using an open systems architecture. This architectural approach will provide greater flexibility to incorporate technology upgrades as they become available, reduce intellectual and proprietary rights issues, and reduce development and support costs. The LW development effort will utilize Other Transactions as the procurement vehicle to increase the level of commercial company involvement. The LW system development will conform to standards identified in Interface Control Documents (ICD's), and System Performance Specifications, which will be controlled by the Government. The follow-on production effort will utilize standard FAR-based full/open competition (best value, price based approach) based on government provided system level performance specifications and system level ICD's. The LW total procurement objective is approximately 47,245 units. The LW Program supports the Chief of Staff of the Army's (CSA) vision of establishing lethal forces through the use of commercial technologies to lighten the force; increase soldier lethality, and making the force more survivable, more mobile, and more deployable.

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<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Award Developmental Contract	2Q	2Q		0	0	0	0	0
Conduct LW IPRs	2Q	1-4Q		0	0	0	0	0
Conduct LW Preliminary Design Review (PDR) and Critical Design Review (CDR)		2Q		0	0	0	0	0
Deliver prototypes for safety test	2Q	4Q		0	0	0	0	0
Conduct Safety Testing and obtain safety release	2Q	4Q		0	0	0	0	0
Conduct Joint Contingency Forces Advanced Warfighting Experiment (JCFAWE)	4Q			0	0	0	0	0
Deliver DT prototypes		4Q	1Q	0	0	0	0	0
Pre-Production Qualification Testing (PPQT) and Production Qualification Testing (PQT)			3Q	0	0	0	0	0
Deliver IOTE prototypes for training and safety release			3-4Q	0	0	0	0	0
Initial Operational Test and Evaluation (IOTE) Training and Test			4Q	0	0	0	0	0
Test-Fix			1-2Q	0	0	0	0	0
MS III Decision				0	0	0	0	0
Production Contract Award				0	0	0	0	0
Objective Development Test-Fix				0	0	0	0	0
First Unit Equipped (FUE)*				0	0	0	0	0
Initial Operational Capability (IOC)*				0	0	0	0	0

* With current OPA funding.

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 667		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Computer Sciences Corporation (CSC)	Task Order	Eatontown, NJ	35533	24005	1-3Q	9451	1-3Q	0	0	0	0	0
b . Exponent	FFP	Menlo Park, CA	0	3650	1-2Q	5549	1-2Q	0	0	0	0	0
c . PEMSTAR	FFP	Rochester, MN	0	13481	1-3Q	20915	1-3Q	0	0	0	0	0
d . OMEGA Training Group	FFP	Columbus, GA	0	1684	1-3Q	2561	1-3Q	0	0	0	0	0
e . Wexford Group	Task Order	Vienna, VA	0	842	1-3Q	1201	1-3Q	0	0	0	0	0
f . Pacific Consultants	FFP	Mountain View, CA	0	1685	1-3Q	2562	1-4Q	0	0	0	0	0
g . Develop Obj Reqmts (Power, Wt, Sys Voice, etc.)	TBD		0	0		0		0	0	0	0	0
h . Raytheon Systems	CPAF	El Segundo, CA	122348	0		0		0	0	0	0	0
Subtotal:			157881	45347		42239		0		0	0	0
Remarks: Award dates covering multiple quarters reflect multiple awards.												

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 667		
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . CECOM	MIPR	Ft. Belvoir, VA/Ft Monmouth NJ	8274	3322		3260		0	0	0	0	0
b . TSM-Soldier	MIPR	Fort Benning, GA	1225	207		200		0	0	0	0	0
c . Modern Tech Inc.	Task Order	Springfield, VA	8675	1970		1710		0	0	0	0	0
d . West Point		West Point, NY	360	0		0		0	0	0	0	0
e . PM Soldier Electronics		Ft Belvoir, VA	10255	950		1101		0	0	0	0	0
f . SBBR/STTR, Rescission, and OSD Inflation			0	0		0		0	0	0	0	0
Subtotal:			28789	6449		6271		0		0	0	0
Remarks: Buys government and contract engineering and logistical support for overall program support.												

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III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Ft Bragg	MIPR	Fort Bragg, NC	476	100		100		0	0	0	0	0
b . Testing Organizations	MIPR	Various	3948	595		6684		0	0	0	0	0
c . Various Organizations	MIPR	Ft. Benning, GA	5964	780		0		0	0	0	0	0
d . Test Equip/Support	Various		3749	600		500		0	0	0	0	0
e . Army Research Institute (ARI)	MIPR		0	344		250		0	0	0	0	0
f . ARL-HRED	MIPR		110	0		0		0	0	0	0	0
Subtotal:			14247	2419		7534		0		0	0	0
Remarks: Costs in FY99/00 are for test planning, evaluations, and test equipment only. Testing will be conducted in FY01.												

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PM Soldier	In-House	Fort Belvoir, VA	7778	840		1022		0	0	0	0	0
b . Wexford Group	Task Order	Vienna, VA	1080	838	1Q	900	1Q	0	0	0	0	0
c . CYIOS, Inc.	Task Order	Washington, DC	825	400	1Q	400	1Q	0	0	0	0	0
d . ACS	Task Order	Arlington, VA	60	196	1-2Q	200	1-2Q	0	0	0	0	0
e . BRTRC	Task Order	Fairfax, VA	165	504	1-2Q	500	1-2Q	0	0	0	0	0
f . SBCCOM	MIPR	Natick, MA/APG, MD	1160	960		1000		0	0	0	0	0
g . SY-Tech	Task Order	Sherman Oaks, CA	694	1137	1Q	1200	1Q	0	0	0	0	0
h . Dynetics	Task Order	Huntsville, AL	140	100	1Q	100	1Q	0	0	0	0	0
i . Oracle	Task Order	San Diego, CA	0	391	1-2Q	389	1-2Q	0	0	0	0	0

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BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 667		
IV. Management Services (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			11902	5366		5711		0		0	0	0
Remarks: Award dates covering multiple quarters reflect multiple awards.												
Project Total Cost:			212819	59581		61755		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 668	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
668 SOLDIER ENHANCE PGM	13980	14174	14109	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u> The Soldier Enhancement Program (SEP) supports Force XXI and the Transformation Campaign Plan by increasing the lethality, command and control, sustainability, mobility, and survivability of the Soldier. This is primarily accomplished through accelerated acquisition and integration efforts of lighter, more lethal weapons and improved "Soldier items" including lighter, more comfortable load-bearing equipment, field gear, survivability items, communications equipment, and navigational aids. For SEP purposes, Soldiers are managed in three categories: dismounted Soldiers, combat crews (air and ground), and other Soldiers. Projects generally are completed in three years or less.</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> 1712 Completed evaluation/type classified/transitioned to production: Flashlight Mount, 12 Gauge Non Lethal Point and Crowd Control, Canteen Water Insert Purifier, and Lightweight Voice Amplifier. 6692 Continued evaluation/procured prototypes, and/or test: 40mm Cannister Round, 12 Gauge Breaching Round, Long Range Tactical Sniper Cartridge, Long Range Sniper Rifle, Lightweight Fragmentation Hand Grenade, M203 Enhanced Fire Control, Sniper Accessory Kit, Backup Iron Sight for Modular Weapon System, Petroleum Oil Lubricants (POL) Handlers Glove System, Camouflage Uniform System for Soldiers, Multiple Utility Digging System, Tactical Search Mirror System, Concealable Stab Protective Body Armor, Protective Glove System, Riot Control Agent Neutralizer, Combined Camouflage Face Paint (Phase I), Collapsible Grappling Hook, Improved Combat Shelter, Survival Egress Air (SEA) MK2 Device (formerly Helicopter Aircrew Breathing Device), Micro-Rappel System, and Small Unit Multi-Purpose Trailer. 2786 Initiated market surveys and/or evaluations: Joint Service Combat Shotgun, M240B Combat Ammunition Pack (CAP), 12 Gauge Penetrating/Irritating Cartridge, Smart Mine Probe, Family of Batons/Night Sticks, Parachutist's Drop Bag, Tactical Assault Ladder Systems, Improved Cold Weather Mask, Boot Gaiters, and Infrared Laser Pattern Generation Pointer. 2505 In-house engineering support services, computer services, conduct technical and program reviews. 10 Program Terminations: Smart Mine Probe - Failed testing. 275 Program Redirection: Rifle Launched Non-Lethal Munitions - Configuration did not satisfy user requirement. Cartridge was redesigned resulting in redirection to 5.56 Non-Lethal Muzzle Launched Ordnance. <p>Total 13980</p>										

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604713A - Combat Feeding, Clothing, and Equipment

PROJECT

668

FY 2001 Planned Program

- 2445 Complete evaluation/type classify/transition to production: 40mm Cannister Round, 12 Gauge Breaching Round, Sniper Accessory Kit, Backup Iron Sight for Modular Weapon System, Micro Rappel System, POL Handlers Glove System, Boot Gaiters, Camouflage Uniform System for Soldiers, Multiple Utility Digging System, Family of Batons/Night Sticks, Protective Glove System, Survival Egress Air (SEA) MK2 Device, Improved Cold Weather Mask, and Collapsible Grappling Hook.
- 4434 Continue evaluation/procure prototypes and/or test: Joint Service Shotgun, M240B Combat Ammunition Pack, 5.56 Non-Lethal Muzzle Launched Ordnance, Parachutist Drop Bag, 12 Gauge Penetrating/Irritating Cartridge, Infrared Laser Pattern Generation Pointer, Combined Camouflage Face Paint (Phase I), Tactical Assault Ladder System, Riot Control Agent Neutralizer, Tactical Search Mirrors, Concealable Stab Protective Body Armor, and Improved Combat Shelter.
- 3269 Initiate market surveys and/or evaluations: Close Combat Mission Capability Kit, M84 Reloadable Fuze, Integrated Laser White Light Pointer, Law Enforcement/Special Reaction Team (LE/SRT) Civil Disturbance Equipment Bag, Double Hearing Protection and Communication Capability, Neck Protector, Permethrin Treatment of Nomex and Nuclear Biological Chemical (NBC)Compatible Drinking System.
- 2500 In-house engineering support services, computer services, conduct technical and program reviews.
- 202 Program Terminations: Lightweight Fragmentation Hand Grenade and Small Unit Multi-Purpose Trailer - Not capable of meeting operational requirements. Double Hearing Protection and Communication Capability - requirement satisfied by using the Modular Integrated Communications Helmet.
- 1324 Program Redirections: Long Range Sniper Rifle - User requirements reassessed - require semi-automatic versus bolt action rifle - redirected to XM107 Semi-Automatic Anti-Materiel Rifle. Long Range Sniper Cartridge - User requires calibre .50 cartridge for semi-automatic rifle versus bolt action - redirected to XM107 Sniper Ammo. M203 Enhanced Fire Control - Army changes to M203 MEFC Operational Requirements Document (ORD) resulted in redirection to M203 Grenade Launched Rail System

Total 14174

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604713A - Combat Feeding, Clothing, and Equipment

PROJECT

668

FY 2002 Planned Program

- 3745 Complete evaluation/type classify/transition to production: 5.56 Non-Lethal Muzzle Launched Ordnance, Joint Service Combat Shotgun, M203 Grenade Launched Rail System, M240B Combat Ammunition Pack, Infrared Laser Pattern Generation Pointer, 12 Gauge Penetrating/Irritating Cartridge, Neck Protector, Military Police Equipment Carrying Bag, Parachutists Drop Bag, Tactical Assault Ladder System, Combined Camouflage Face Paint(Phase I), Improved Combat Shelter, Neck Protector, Riot Control Agent Neutralizer, Concealable Stab Protective Body Armor, XM107 Semi-Automatic Anti-Materiel Rifle, Tactical Search Mirrors, and LE/SRT Civil Disturbance Equipment Bag.
- 5032 Continue evaluation/procure prototypes and/or test: Close Combat Mission Capability Kit, M84 Reloadable Fuze, XM107 Sniper Ammunition, Combined Camouflage Face Paint (Phase II), Integrated Laser White Light Pointer, Permethrin Treatment of Nomex, and NBC Compatible Drinking System.
- 2832 Initiate market surveys and/or evaluations: M9 Pistol Rail, Collapsible Buttstock for M249 Machine Gun, Hand Thrown Stingball Grenade, Body Restraint, Ghillie Suit, Aircrew Immersion Coveralls, Aircrew Survival/Egress Knife, Tactical Thigh Holster, and Handheld Irritant Sprayer.
- 2500 In-house engineering support services, computer services, conduct technical and program reviews.

Total 14109

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604713A - Combat Feeding, Clothing, and Equipment

PROJECT

668

<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
OPA3, MA6800, Soldier Enhancement	3571	3947	3148	0	0	0	0	0	0	0
OPA2, BA5300, Soldier Enhancement	3645	19164	5136	0	0	0	0	0	0	0
WTCV, GC0076, Small Arms (SEP)	5963	3473	303	0	0	0	0	0	0	0
WTCV, GZ1290, Squad Automatic Wpn (Mods)	4139	9865	4450	0	0	0	0	0	0	0
WTCV, GZ2800, M16 Rifle Mods	4331	9504	2100	0	0	0	0	0	0	0
WTCV, GB3007, M4 Carbine Mods	9393	2481	0	0	0	0	0	0	0	0
WTCV, G01500, Sniper Rifle	145	3056	2149	0	0	0	0	0	0	0
WTCV, GC0925, Mods	2186	779	1261	0	0	0	0	0	0	0
PAA, F47500, 7.62mm AP	1308	0	2412	0	0	0	0	0	0	0
PAA, F47600, 5.56mm AP	1826	1325	3551	0	0	0	0	0	0	0
PAA, F00900, 40mm Canister	0	0	0	0	0	0	0	0	0	0
PAA, E84900, XM84 Stun Grenade	1739	2336	2398	0	0	0	0	0	0	0
PAA, E86400, 12 Gauge Non Lethal	0	936	0	0	0	0	0	0	0	0
PAA, E86500, Cartridge, 12 Ga Crowd Dispersal	921	0	0	0	0	0	0	0	0	0
PAA, E91100, XM95 Cartridge, Non Lethal Crowd	0	6311	6533	0	0	0	0	0	0	0
PAA, E89000, 40mm Non Lethal	1526	1870	1973	0	0	0	0	0	0	0
OMA, 121017, Central Funding & Fielding	75148	61706	79515	0	0	0	0	0	0	0

C. Acquisition Strategy: The Soldier Enhancement Program (SEP) focuses on developmental initiatives that lend themselves to accelerated acquisition and fielding in the near term (within three years). New SEP candidates are reviewed and approved annually. SEP items are procured from multiple appropriations, i.e., OMA, OPA, WTCV, and PAA.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)**June 2001**

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

**0604713A - Combat Feeding, Clothing, and
Equipment**

PROJECT

668**D. Schedule Profile**

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
SEP Requirements Reviews	2Q	2Q	2Q	0	0	0	0	0
SEP Projects Reviews	4Q	4Q	4Q	0	0	0	0	0

NOTE: Numerous individual projects are ongoing under the Soldier Enhancement Program (SEP) and each project has its own milestone schedule

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 668		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPR	SBCCOM, MA	2067	1857		2375		0	0	0	0	0
b . Integrated Laser White Light Pointer	MIPR	PM-NVRSTA, VA	0	140		860		0	0	0	0	0
c . Various	MIPR	PM-SA, NJ	5340	4858		6301		0	0	0	0	0
d . Canteen Water Insert	MIPR	PM-PAWS MI	220	0		0		0	0	0	0	0
e . Various	MIPR	SBCCOM, MD	974	888		360		0	0	0	0	0
f . Lightweight Low Profile Voice Amplifier	MIPR	PM-NBC, MD	200	0		0		0	0	0	0	0
g . Smart Mine Probe	MIPR	PM-MCD, VA	150	0		0		0	0	0	0	0
h . Pattern Generation	MIPR	CECOM, NJ	79	30		75		0	0	0	0	0
i . Parachurist Drop Bag	MIPR	PM, Soldier Support, MA	25	521		100		0	0	0	0	0
Subtotal:			9055	8294		10071		0		0	0	0
Remarks: Candidates for the Soldier Enhancement Program are received, reviewed, and approved annually. Contractual efforts primarily are focused on procuring prototypes for testing.												

ARMY RDT&E COST ANALYSIS(R-3)										June 2001		
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 668		
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPR	TSM-SDR, GA	200	275		275		0	0	0	0	0
b . Various	Contracts	Various	2020	3758		1846		0	0	0	0	0
c . DCD Support - Military Police	MIPR	GSA/FEDLEARN	94	110		120		0	0	0	0	0
d . Logistics Support	MIPR	Army Logistics Support Activity	0	78		100		0	0	0	0	0
e . DCD Support - Armor			0	119		0		0	0	0	0	0
Subtotal:			2314	4340		2341		0		0	0	0
Remarks: Support costs vary annually depending on the type of items we are evaluating. Research Development and Engineering Centers support to evaluate items also varies annually depending on the number and types of items.												

ARMY RDT&E COST ANALYSIS(R-3)										June 2001		
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 668		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPR	OFIG, MA	25	25		25		0	0	0	0	0
b . Various	MIPR	OPTEC/ATEC,	1281	90		100		0	0	0	0	0
Subtotal:			1306	115		125		0		0	0	0
Remarks: Testing costs vary annually by item(s) and are primarily funded by customers using the program dollars we send to them.												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . In-House		PM-Soldier Equipment, VA	1305	1425		1572		0	0	0	0	0
b . SBIB/STTR/Inflation			0	0		0		0	0	0	0	0
Subtotal:			1305	1425		1572		0		0	0	0
Remarks: Costs vary annually depending on number and type of items being evaluated.												
Project Total Cost:			13980	14174		14109		0		0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								June 2001		
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT C40	
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
C40 SOLDIER SUPPORT EQUIPMENT - ED	4475	5817	8716	0	0	0	0	0	0	0
<p><u>A. Mission Description and Budget Item Justification:</u>Develop and field soft shelters, showers, latrines, heaters, mortuary affairs, organizational equipment and other combat service support equipment to improve unit sustainability and combat effectiveness. Develop and Type Classify cargo and personnel parachutes, airdrop containers and other aerial delivery equipment to improve safety and efficiency of airborne operations. Develop a series of Rigid Wall Shelters (RWS) with added capabilities and enhanced survivability. Project supports development of critical enablers that enhance deployment, reduce CS/CSS footprint, reduce logistics/support costs, and increase readiness in accordance with the Army Transformation Campaign Plan objectives.</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> 2188 Terminated the existing R&D contract for the Advanced Reserve Parachute System (ARPS). Performed a Jump-off for new R&D ARPS Contract. Effort transfers to project DC40 from project DC09 in FY2001. 125 Completed RDT&E and released LRIP solicitation for the Space Heater Convective. 187 Procured and evaluated candidates for Chaplain's Logistic Support Package. 500 Acquired and began testing the Modular General Purpose Tent System P3I Items (fabric flooring, frame system, liners). 450 Completed Field Evaluations for Cargo Bed Covers Type I (HMMWV) and Type II (1.5 ton cargo trailer). 575 Procured additional Cargo Bed Covers Type I (HMMWV) and Type II (1.5 ton trailer) for testing. 450 Evaluated technologies for the Lightweight Maintenance Enclosure P3I and Temper Improvements Effort. <p>Total 4475</p>										

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)		June 2001
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV	PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment	PROJECT C40
<p><u>FY 2001 Planned Program</u></p> <ul style="list-style-type: none"> • 500 Conduct Design Validation of the Advanced Tactical Parachute System/Advanced Reserve Parachute System (ATPS/ARPS). • 85 Procure for ATPS/ARPS Design Validation test items, (20 @ \$4.25K ea). • 1725 Conduct Developmental Testing for the ATPS/ARPS. • 108 Procure Developmental Test items for ATPS/ARPS (27 Phase I test items @ \$4,000 ea). • 272 Conduct Technical and Operational Testing and User Field Evaluation for Chaplaincy Logistical Support Package. Obtain Milestone III Type Classification Standard. • 450 Conduct Milestone B, Procure Long Lead Items, Fabricate Prototypes (2 @ \$125K ea.)and conduct DT, OT and Log Demo for the Containerized Chapel. • 500 Complete Milestone B on the Space Heater Small. Conduct Milestone B for the Space Heater Large. Initiate fabrication of prototype of 60K BTU Space Heater Convective. Complete Milestone C, conduct technical testing on Space Heater Small Production Demonstration Models, and award LRIP. • 825 Complete testing and field evaluations of Modular General Purpose Tent System P3I prototypes. • 450 Investigate and evaluate airbeam technology and composite materials for potential employment in the Lightweight Maintenance Enclosure P3I. • 580 Milestone B program initiation for 500 ft. Low Velocity Airdrop System (LVADS). Perform Design Verification Testing on the 500 ft. LVADS. • 322 Procure test items (5 @ \$65.4K)for the 500 ft. LVADS Design Verification Testing. <p>Total 5817</p>		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)**June 2001**

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

**0604713A - Combat Feeding, Clothing, and
Equipment**

PROJECT

C40**FY 2002 Planned Program**

- 2970 Complete Developmental Testing and conduct Milestone II for the ATPS/ARPS.
- 108 Procure test items for the Developmental Testing of Phase II ATPS/ARPS (27 ea @ \$4,000).
- 1825 Plan for and conduct Developmental Testing on the 500 ft. LVADS.
- 890 Procure test items (14 @ \$63K) for the Developmental Testing of 500 ft. LVADS.
- 500 Obtain Milestone C Type Classification - Standard for the Containerized Chapel.
- 600 Complete Full-Rate Production Decision for Space Heater Small. Conduct Technical Testing, award contract, and conduct testing on Space Heater Large PDM. Conduct Milestone B for 60K BTU Space Heater Convective.
- 1273 Procure Test items (liners; Frame/pole interface; and modular deck system)for the Modular General Purpose Tent System P3I (10 complete systems @ \$25K ea.). Initiate system Testing and Evaluation
- 550 Evaluate the Lightweight Maintenance Enclosure P3I airbeam prototypes.

Total 8716

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604713A - Combat Feeding, Clothing, and Equipment

PROJECT

C40

<u>B. Other Program Funding Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
RDTE, 0603747.DC09, Unit/Org Equipment	5415	6641	8914	0	0	0	0	0	0	0
MA7805, Universal Static Line	976	3934	0	0	0	0	0	0	0	0
MA8061, Lightweight Maintenance Enclosure	3690	5548	3636	0	0	0	0	0	0	0

C. Acquisition Strategy: Accelerate product development and testing to transition to Production.

<u>D. Schedule Profile</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Complete Milestone C for the Space Heater Small		2Q		0	0	0	0	0
Award LRIP contract for Space Heater Convective		2Q		0	0	0	0	0
Conduct Technical/User Eval Test for Chaplaincy Logistical Support Package		2Q		0	0	0	0	0
Complete Milestone III for the Chaplaincy Logistical Support Package		4Q		0	0	0	0	0
Conduct Developmental Testing of the Advanced Reserve Parachute System/Advanced Tactical Parachute System		4Q		0	0	0	0	0
Conduct Field Evaluation for the Lightweight Maintenance Enclosure P3I and Temper Improvements			4Q	0	0	0	0	0
Conduct MS B for the Space Heater Large		3Q		0	0	0	0	0
Fabricate Containerized Chapel Prototypes		2Q		0	0	0	0	0
Conduct Technical/Operational Tests for Containerized Chapel.		4Q		0	0	0	0	0
Complete Milestone C, and Type Classify-Standard the Containerized Chapel			2Q	0	0	0	0	0
Complete Full Rate Production Decision for the Space Heater Small			2Q	0	0	0	0	0
Complete DT on ATPS/ARPS			2Q	0	0	0	0	0
Type Classify the Space Heater Large				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT C40		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . SSCOM	In-House	NRDEC	2517	654		1797		0	0	0	0	0
b . Contracts	Various	Various	9515	1392		2950		0	0	0	0	Continue
c . Inflation Withhold			0	0		0		0	0	0	0	0
Subtotal:			12032	2046		4747		0		0	0	Continue
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT C40		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . TECOM/OEC	MIPR	Various	7368	3496		3519		0	0	0	0	Continue
Subtotal:			7368	3496		3519		0		0	0	Continue
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PM Office	In-House	PM-Soldier Support/SSCOM	1614	275		450		0	0	0	0	Continue
Subtotal:			1614	275		450		0		0	0	Continue
Project Total Cost:			21014	5817		8716		0		0	0	Continue

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)							June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT L40		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
L40 CLOTHING & EQUIPMENT	3423	4227	4560	0	0	0	0	0	0	0
<p>A. Mission Description and Budget Item Justification: This project develops state-of-the-art individual clothing and equipment to improve the survivability, mobility, and sustainment affecting the quality of life of the individual soldier, and in support of Force XXI and the Transformation Campaign Plan. Funding shown does not reflect funding from OSD PE 0604384BP to support the Chemical/Biological Defense program in accordance with Public Law 103-60 Title XVII.</p> <p><u>FY 2000 Accomplishments</u></p> <ul style="list-style-type: none"> 1659 MOLLE - Modular Lightweight Loadcarrying Equipment, corrected minor deficiencies from previous tests and incorporate Land Warrior compatibility. 257 CBA - Concealable Body Armor, prepared and released request for proposal. 152 BASIC P3I - Body Armor Set, Individual Countermine, typed classified and received approval for low rate initial production (LRIP). 228 Updated fabrics, style changes, and consolidate dress clothing for Joint Services. 201 JSLIST-OG - Joint Service Lightweight Integrated Suit Technology - Over Garment, awarded contract for the development of an Army CD-ROM for institutional Military Occupational Specialty (MOS) training. 91 MH - Modular Helmet, achieved concept approval. 50 MG - Modular Glove, achieved concept approval. 785 In-house engineering support services, computer services, conduct technical and program reviews. <p>Total 3423</p>										

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604713A - Combat Feeding, Clothing, and Equipment

PROJECT

L40

FY 2001 Planned Program

- 275 ITAP-BGA - Improved Toxicological Agent Protective Boots, Glove, and Apron, achieve Milestone B, award engineering manufacturing development contract, procure prototypes, and initiate testing.
- 434 Update fabrics, style changes, and consolidate dress clothing for Joint Services.
- 1747 MOLLE - Modular Lightweight Loadbearing Equipment, complete developmental test/operational test, achieve Milestone C, and initiate production.
- 275 ABDU-P3I - Aircrew Battle Dress Uniform Product Improvement, achieve Milestone B, award developmental contract, procure prototype items, and initiate developmental testing.
- 136 CBA - Concealable Body Armor, award developmental contract, and initiate developmental/operational testing.
- 585 IADU - Improved Army Dress Uniform, achieve concept approval and Milestone B.
- 69 MG - Modular Glove, achieve Milestone B and release request for proposal.
- 706 In-house engineering support services, computer services, and conduct technical and program reviews.
- Total 4227

FY 2002 Planned Program

- 610 ABDU-P3I - Aircrew Battle Dress Uniform Product Improvement, complete developmental testing, commence field testing/user evaluation.
- 570 ITAP-BGA - Improved Toxicological Agent Protective Boots, Glove, and Apron, complete testing, achieve Milestone C, and type classify standard.
- 140 CBA - Concealable Body Armor, complete testing, achieve Milestone C, and initiate production.
- 355 Update fabrics, style changes, and consolidate dress clothing for Joint Services
- 980 MG - Modular Glove, award contract, procure test items, and commence user evaluation.
- 1418 IADU - Improved Army Dress Uniform, procure test items and commence user evaluation and survey for the .
- 487 In-house engineering support services, computer services, and conduct technical and program reviews.
- Total 4560

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

June 2001

BUDGET ACTIVITY

5 - ENG MANUFACTURING DEV

PE NUMBER AND TITLE

0604713A - Combat Feeding, Clothing, and Equipment

PROJECT

L40

B. Other Program Funding Summary

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
RDTE, 0603747.D669, Clothing & Individual Eq.	3252	3459	4830	0	0	0	0	0	0	0
OMA, 121017, Central Funding and Fielding	88467	79590	90013	0	0	0	0	0	0	0

C. Acquisition Strategy: Soldier modernization will be accomplished via acquisition programs ranging from NDI/modified NDI through integrated programs. Acquisition strategies will vary from: 1) quick fixes in 36 months or less from concept to Type Classification (TC) such as Soldier Enhancement Programs (SEP), 2) modular improvements which require limited RDT&E and will be completed in more than 36 months from concept to Type Classification.

D. Schedule Profile

	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Life Cycle Systems Review	2&4Q	2&4Q	2&4Q	0	0	0	0	0

*Denotes a completed milestone

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT L40		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPRS	SBCCOM, Natick MA	786	2048		2129		0	0	0	0	0
b . Various	Contracts	Various	1308	946		1174		0	0	0	0	0
Subtotal:			2094	2994		3303		0		0	0	0
Remarks: Product development costs vary annually depending on the number and types of programs being evaluated.												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0
Remarks: Support Costs vary annually depending on number of and types of programs being evaluated.												

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 5 - ENG MANUFACTURING DEV					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT L40		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPRS	OPTEC	469	472		720		0	0	0	0	0
b . Various	MIPRS	OFIG, Natick, MA	75	55		50		0	0	0	0	0
Subtotal:			544	527		770		0		0	0	0
Remarks: Testing costs vary annually by item.												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	In-House	PM-S, Ft Belvoir, VA	785	706		487		0	0	0	0	0
Subtotal:			785	706		487		0		0	0	0
Remarks: Management Services costs vary annually depending on the number and types of programs being evaluated.												
Project Total Cost:			3423	4227		4560		0		0	0	0